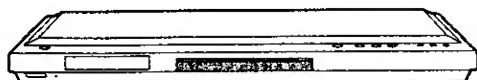
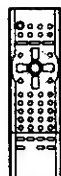


DVD/CD PLAYER

Operating Instructions

Model No. **DVD-XV10**



Panasonic

Region number supported by this player

Region numbers are allocated to DVD players and software according to where they are sold.

For the United Kingdom and Continental Europe

- The region number of this player is "2".
- The player will play DVD-Video marked with labels containing "2" or "ALL".

Example:



For Asia

- The region number of this player is "3".
- The player will play DVD-Video marked with labels containing "3" or "ALL".

Example:



For Australia and N.Z.

- The region number of this player is "4".
- The player will play DVD-Video marked with labels containing "4" or "ALL".

Example:



For Russia

- The region number of this player is "5".
- The player will play DVD-Video marked with labels containing "5" or "ALL".

Example:



Dear customer

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully.

Before connecting, operating or adjusting this product, please read these instructions completely. Please keep this manual for future reference.

Note

"EB" on the packaging indicates the United Kingdom.

RQT6316-B

CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR
PERFORMANCE OF PROCEDURES OTHER THAN
THOSE SPECIFIED HEREIN MAY RESULT IN HAZ-
ARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR
YOURSELF. REFER SERVICING TO QUALIFIED
PERSONNEL.

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK
OR PRODUCT DAMAGE, DO NOT EXPOSE THIS AP-
PARATUS TO RAIN, MOISTURE, DRIPPING OR
SPLASHING AND THAT NO OBJECTS FILLED WITH
LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON
THE APPARATUS.

This product may receive radio interference caused by mobile tele-
phones during use. If such interference is apparent, please in-
crease separation between the product and the mobile telephone.

DANGER	- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (FDA 21 CFR)
CAUTION	- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. (IEC 60825-1)
ATTENTION	- RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FASCEAU.
ADVARSEL	- SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSETTELSE FOR STRÅLING.
VARO!	- AVATTAESSA OLET ALTITTA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESSEEN.
VARNING	- SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRÄKTA EJ STRÅLEN.
ADVARSEL	- SYNLIG OG USYNLIG LASERSTRÅLING NÄR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT	- SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG. WEHN ABDECKUNG GEÖFFNET, NICHT DEM STRAHLEN AUSSETZEN.
注意	- 打开时有可见及不可见激光辐射。避免激光束照射。
注意	- ここを覗くと有害及び不可視のレーザー光が出ます。 ビームを直接見たり、照射しないようにしてください。 ROL50233

(Inside of product)
(Produktets innsida)
(Tuotteen sisällä)

SUOMI**VAROITUS!**

LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ
KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAAT-
TAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUO-
KAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE
LASERSÄTEILYLLE.

VAROITUS:

TULIPALO-, SÄHKÖISKUVAARAN TAI TUOTETTA
KOHTAAVAN MUUN VAHINGON VÄHENTÄMISEKSI
EI LAITETTA SAA ALTISTAA SATEELLE, KOS-
TEUDELLE, VESIPISAROILLE TAI ROISKEELLE, EIKÄ
NESTETTÄ SISÄLTÄVIÄ ESINEITÄ, KUTEN ESIM-
ERKIKSI MALJAKOITA, SAA ASETTAA LAITTEEN
PÄÄLLE.

VAROITUS!

- ÄLÄ ASENNATA TAI LAITA TÄTÄ LAITETTA KABINET-
TITYYPPISEEN KIRJAKAAPPIIN TAI MUUHUN
SULJETTUUN TILAAN, JOTTA TUULETUS ONNIS-
TUISI. VARMISTA, ETTÄ VERHO TAI MIKÄÄN MUU
MATERIAALI EI HUONONNA TUULETUSTA, JOTTA
VÄLTETTÄISIIN YLIKUMENEMISESTA JOHTUVA
SÄHKÖISKU- TAI TULIPALOVAARA.
- ÄLÄ PEITÄ LAITTEEN TUULETUSAUUKKOJA SA-
NOMALEHDELLÄ, PÖYTÄLINALLA, VERHOLLA TAI
MUULLA VASTAAVALLA ESINEELLÄ.
- ÄLÄ ASETA PALAVAA KYNTILÄÄ TAI MUUTA
AVOTULEN LÄHDETTÄ LAITTEEN PÄÄLLE.
- HÄVITÄ PARISTOT LUONTOA VAHINGOITTAMAT-
TOMALLA TAVALLA.

TÄMÄ LAITE ON TARKOITETTU KÄYTETTÄVÄKSI LEUDOSSA
ILMASTOSSA.

CAUTION!

- DO NOT INSTALL, OR PLACE THIS UNIT, IN A
BOOKCASE, BUILT-IN CABINET OR IN ANOTHER
CONFINED SPACE. ENSURE THE UNIT IS WELL
VENTILATED. TO PREVENT RISK OF ELECTRIC
SHOCK OR FIRE HAZARD DUE TO OVERHEATING,
ENSURE THAT CURTAINS AND ANY OTHER MATE-
RIALS DO NOT OBSTRUCT THE VENTILATION
VENTS.
- DO NOT OBSTRUCT THE UNIT'S VENTILATION
OPENINGS WITH NEWSPAPERS, TABLECLOTHS,
CURTAINS, AND SIMILAR ITEMS.
- DO NOT PLACE SOURCES OF NAKED FLAMES,
SUCH AS LIGHTED CANDLES, ON THE UNIT.
- DISPOSE OF BATTERIES IN AN ENVIRONMENTAL-
LY FRIENDLY MANNER.

For Asia

THIS UNIT IS INTENDED FOR USE IN TROPICAL
CLIMATES.

For others

THIS UNIT IS INTENDED FOR USE IN MODER-
ATE CLIMATES.

NORSK**ADVARSEL!**

DETTE PRODUKTET ANVENDER EN LASER.
BETJENING AV KONTROLLER, JUSTERINGER
ELLER ANDRE INNGREP ENN DE SOM ER BE-
SKREVENT I DENNE BRUKSANVISNING, KAN FØRE
TIL FARLIG BESTRÅLING.
DEKSLER MÅ IKKE ÅPNES, OG FORSØK ALDRI Å
REPARERE APPARATET PÅ EGENHÅND. ALT SER-
VICE OG REPARASJONSARBEID MÅ UTFØRES AV
KVALIFISERT PERSONELL.

ADVARSEL:

FOR Å REDUSERE FAREN FOR BRANN, ELEKTRISK
STØT ELLER SKADER PÅ PRODUKTET, MÅ DETTE
APPARATET IKKE UTSETTES FOR REGN, FUK-
TIGHET, VANNDRÅPER ELLER VANNSPRUT. DET MÅ
HELLER IKKE PLASSERES GJENSTANDER FYLT
MED VANN, SLIK SOM BLØMSTERVASER, OPPÅ AP-
PARATET.

ADVARSEL!

- APPARATET MÅ IKKE PLASSERES I EN
BOKHYLLE, ET INNEBYGGET KABINETT ELLER ET
ANNET LUKKET STED HVOR VENTILASJONSFOR-
HOLDENE ER UTILSTREKKELIGE. SØRG FOR AT
GARDINER ELLER LIGNENDE IKKE FORVERRER
VENTILASJONSFORHOLDENE, SÅ RISIKO FOR
ELEKTRISK SJOKK ELLER BRANN FORÅRSAKET
AV OVERHETING UNNGÅS.
- APPARATETS VENTILASJONSÅPNINGER MÅ IKKE
DEKKES TIL MED AVISER, BORDDUKER, GARDI-
NER OG LIGNENDE.
- PLASSER IKKE ÅPEN ILD, SLIK SOM LEVENDE LYS,
OPPÅ APPARATET.
- BRUKTE BATTERIER MÅ KASSERES UTEN FARE
FOR MILJØET.

DETTE APPARATET ER BEREGNET TIL BRUK UNDER
MODERATE KLIMAFORHOLD.

Table of contents

Getting started	
Caution for AC Mains Lead	3
Accessories	4
1 Connection	4
2 The remote control	6
3 Quick Setup	6
Control reference guide	7
Disc information	7
Basic operations	
Basic play	8
Starting play from a selected title or track	8
Skipping chapters or tracks	9
Fast forward and rewind—SEARCH	9
Slow-motion play	9
Frame-by-frame viewing	9
Replaying a scene—QUICK REPLAY	9
Resume function	9
4:3 TV ZOOM function	9
Advanced operations	
Convenient features	10
Repeat play	10
A-B repeat play	10
Program play	10
Random play	11
Using menus to play MP3 discs	11
Setting the unit to turn off—SLEEP timer	11
Increasing your enjoyment of movies	12
Soundtracks	12
Subtitles	12
Angles	12
A ADVANCED SURROUND	13
B BASS PLUS	13
C CINEMA/CONCERT	13
D DIALOGUE ENHANCER	13
ONE TOUCH CINEMA MEMORY	13
Using Graphical User Interface (GUI) screens	14
Common procedures	14
Disc information	14
Unit information	15
Progress indicator	15
Changing settings	16
Common procedures	17
Entering a password (Ratings)	17
Digital output	17
Reference	
Troubleshooting guide	18
Safety precautions	19
Maintenance	19
Specifications	Back cover
Glossary	Back cover



**LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT**

(Back of product)

(The illustration shows the model for the United Kingdom, Continental Europe and Russia.)

Caution for AC Mains Lead

(For United Kingdom)



("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

CAUTION!

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as stated below.

If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral, Brown: Live.

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL  OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

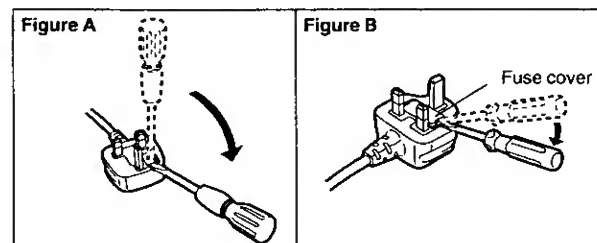
Remove the connector cover.

How to replace the fuse

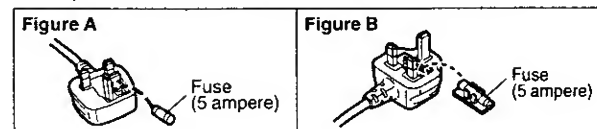
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



2. Replace the fuse and close or attach the fuse cover.



Getting started

ROT6316

Accessories

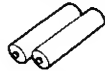


Please check and identify the supplied accessories. Use numbers indicated in parentheses when asking for replacement parts.

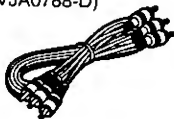
☒ 1 Remote control
(N2QAJB000037)



☐ 2 Batteries
for remote control



☐ 1 Audio/video cable
(VJA0788-D)



☐ 1 Cleaning cloth
(RFE0088-1)



☐ 1 AC mains lead

For the United Kingdom
(RJA0053-3X)



For Australia and N.Z.
(RJA0035-K)



For others
(RJA0019-2X)



Note

The included AC mains lead is for use with this unit only.
Do not use it with other equipment.

Getting started

1 Connection

Basic connection

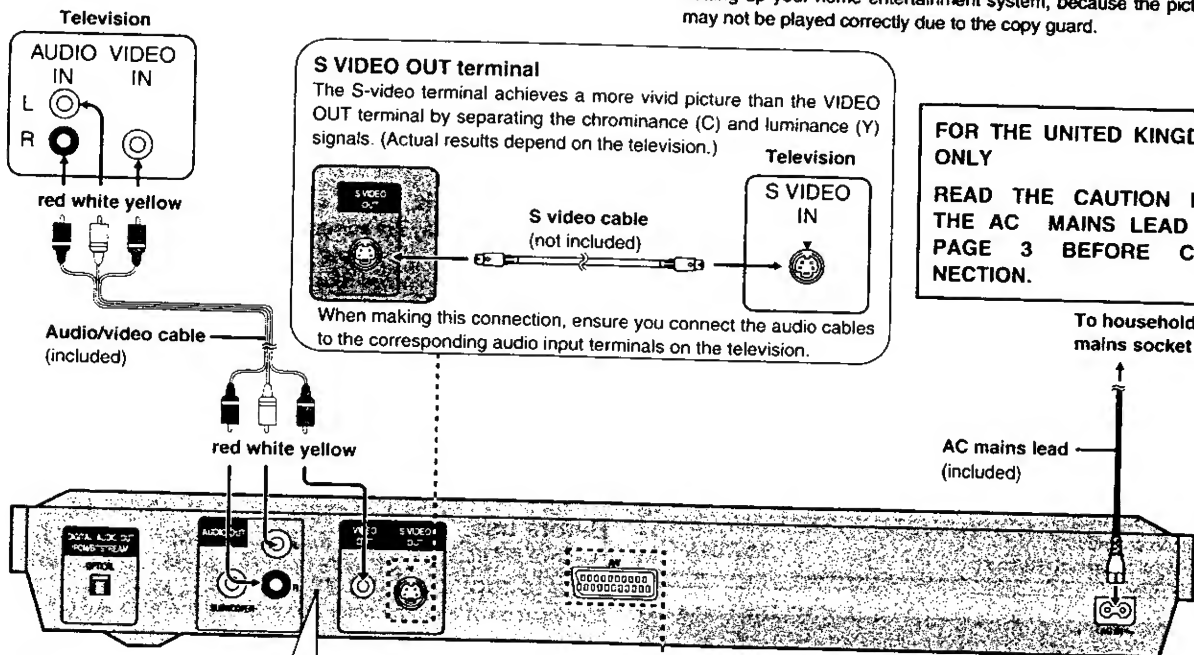
This page explains how to connect the unit to a television and set it up so you hear the audio through the television's speakers. To get the full benefit from the powerful 5.1-channel audio found on DVDs, you should connect an amplifier and six speakers (→ page 5).

Before connection

- Disconnect the AC mains lead.
- Refer to the television's operating instructions.

Connect your unit directly to your television.

Do not connect the unit through your video cassette recorder when setting up your home entertainment system, because the picture may not be played correctly due to the copy guard.



S VIDEO OUT terminal

The S-video terminal achieves a more vivid picture than the VIDEO OUT terminal by separating the chrominance (C) and luminance (Y) signals. (Actual results depend on the television.)



S video cable
(not included)

Television



When making this connection, ensure you connect the audio cables to the corresponding audio input terminals on the television.

FOR THE UNITED KINGDOM ONLY
READ THE CAUTION FOR THE AC MAINS LEAD ON PAGE 3 BEFORE CONNECTION.

To household mains socket

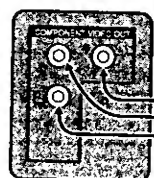
AC mains lead
(included)

For Asia, Australia and N.Z.

COMPONENT VIDEO OUT terminal

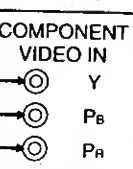
Connection using these terminals outputs the color difference signals (Pb/P_r) and luminance signal (Y) separately in order to achieve high fidelity in reproducing colors.

- The description of the component video input terminals depends on the television or monitor (e.g. Y/P_b/P_r, Y/B-Y/R-Y, Y/C_b/C_r). Connect to terminals of the same color.



Video cable
(not included)

Television

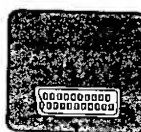


When making this connection, ensure you connect the audio cables to the corresponding audio input terminals on the television.

For the United Kingdom, Continental Europe and Russia

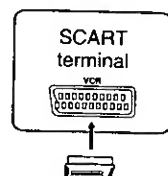
SCART terminal

- To improve picture quality, you can change the video signal output from the AV terminal from "Video" to either "S-Video" or "RGB" to suit the type of television you are using (→ page 16, Video—AV Output).



21-pin SCART cable
(not included)

Television



ROT6316

1 Connection

Home Theater—Enjoying more powerful sound

This model can play Dolby Digital, but only in two channels. This model does not have a DTS decoder. You must connect a unit with a Dolby Digital or DTS decoder to enjoy surround sound.

Note

- The equipment connections described are examples.
- Peripheral equipment and optional cables sold separately unless otherwise indicated.
- Before connection, turn off all equipment and read the appropriate operating instructions.

A Digital connection

To enjoy 5.1-ch surround sound

Connect an amplifier with a built-in decoder or a decoder-amplifier combination.

- Change the settings in "Digital output" to suit the equipment you connect (⇒ page 17).

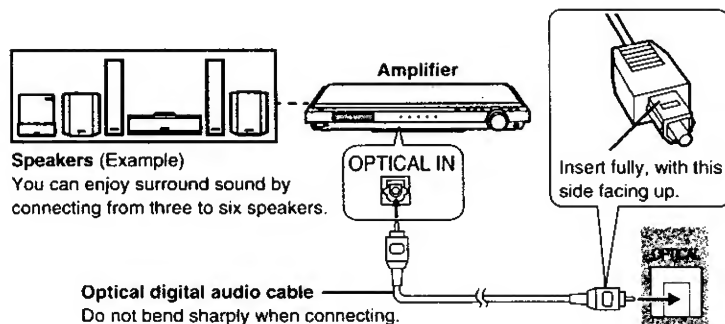
Note

You cannot use DTS Digital Surround decoders not suited to DVD.

To enjoy stereo or Dolby Pro Logic

Connect a digital amplifier or system component.

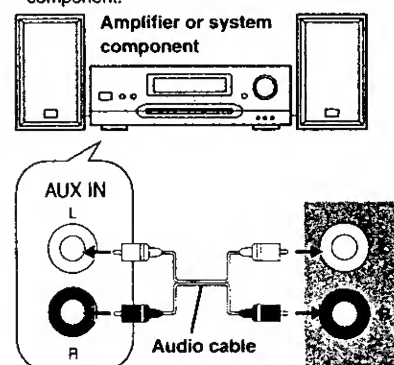
- Change the settings in "Digital output" (⇒ page 17).



B Analogue connection

To enjoy stereo or Dolby Pro Logic

Connect an analogue amplifier or system component.



Connecting an active subwoofer

You can enjoy more powerful bass by connecting an active subwoofer.

- Place the subwoofer as close as possible to the front center.
- Turn BASS PLUS on to boost the output from the subwoofer (⇒ page 13).
- Adjust the volume on the subwoofer to suit your preference.



■ Recording to digital recording equipment or cassette tapes

• Digital recording

You can record the digital signal directly to digital recording equipment. Connect the recording equipment with an optical digital audio cable (⇒ A above).

Note

- With DVD, the following conditions must be met: ① the disc doesn't have protection preventing digital recording, and ② the recording equipment can handle signals with a sampling frequency of 48 kHz.
- You cannot record DTS signals.
- You cannot record MP3.

When recording DVDs, make the following settings.

ADVANCED SURROUND: OFF (⇒ page 13)

PCM Down Conversion: Yes (⇒ page 17)

Dolby Digital: PCM (⇒ page 17)

DTS Digital Surround: Off (⇒ page 17)

MPEG+: PCM (⇒ page 17)

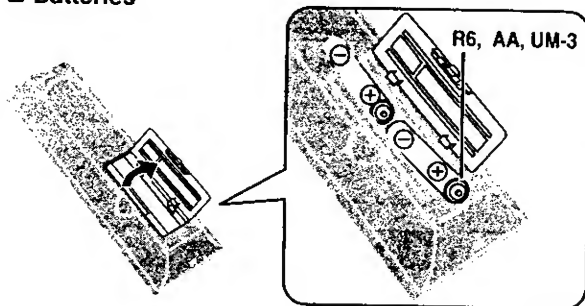
~Not available in Asia.

• Analogue recording

You can record to a cassette deck or other recording equipment. Connect the recording equipment with an audio cable (⇒ B above). There are no limitations on recording analogue signals as there are with digital signals.

2 The remote control

Batteries



- Insert so the poles (+ and -) match those in the remote control.
- Do not use rechargeable type batteries.

Do not:

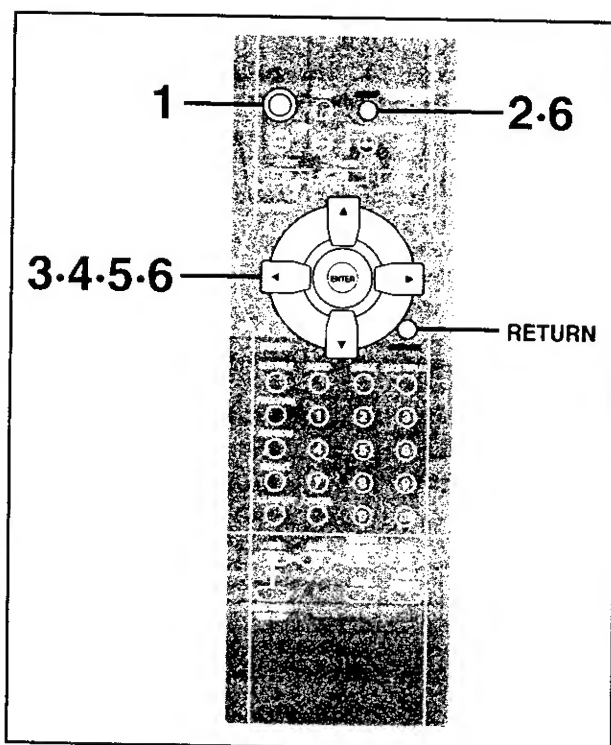
- mix old and new batteries.
 - use different types at the same time.
 - heat or expose to flame.
 - take apart or short circuit.
 - attempt to recharge alkaline or manganese batteries.
 - use batteries if the covering has been peeled off.
- Mishandling of batteries can cause electrolyte leakage which can damage items the fluid contacts and may cause a fire.

Remove if the remote control is not going to be used for a long period of time. Store in a cool, dark place.

Use

Aim at the sensor, avoiding obstacles, at a maximum range of 7 m directly in front of the unit.

3 Quick Setup



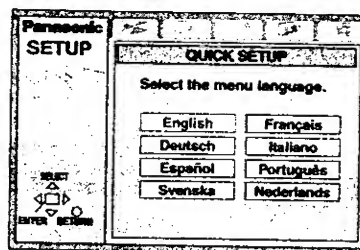
Remote control only

The **QUICK SETUP** screen appears when you press [SETUP] the first time after purchase and assists you to make necessary settings. You can access this screen again later if you need to (⇒ page 16, Others—QUICK SETUP).

Preparation

Turn on the television and select the appropriate video input on the television to suit the connections for the player.

- 1 Press [⏻] to turn on the unit.
- 2 Press [SETUP] to show the **QUICK SETUP** screen. e.g. Units for the United Kingdom, Continental Europe, Russia, Australia and N.Z.



- 3 Press [▲, ▼, ◀, ▶] to select the menu language and press [ENTER].
- 4 Press [▲, ▼] to select "Yes" to continue and press [ENTER].
- 5 Press [▲, ▼, ◀, ▶] to select the item and press [ENTER].
 - Audio Language (For setting details ⇒ page 16)
 - Subtitle Language (For setting details ⇒ page 16)
 - TV Aspect (For setting details ⇒ "TV Aspect" below)
- 6 Press [ENTER] and then [SETUP] to end the settings.

To return to the previous screen
Press [RETURN].

TV Aspect

Select "4:3" (regular) or "16:9" (widescreen) to suit your television.

If you have a regular 4:3 television, you can also select how video on some discs is shown (⇒ page 16, Video—TV Aspect).

•4:3 Pan&Scan (Factory preset)

The pan and scan (the original widescreen images are converted for viewing on a regular television) version of the video is automatically selected if recorded on the disc.



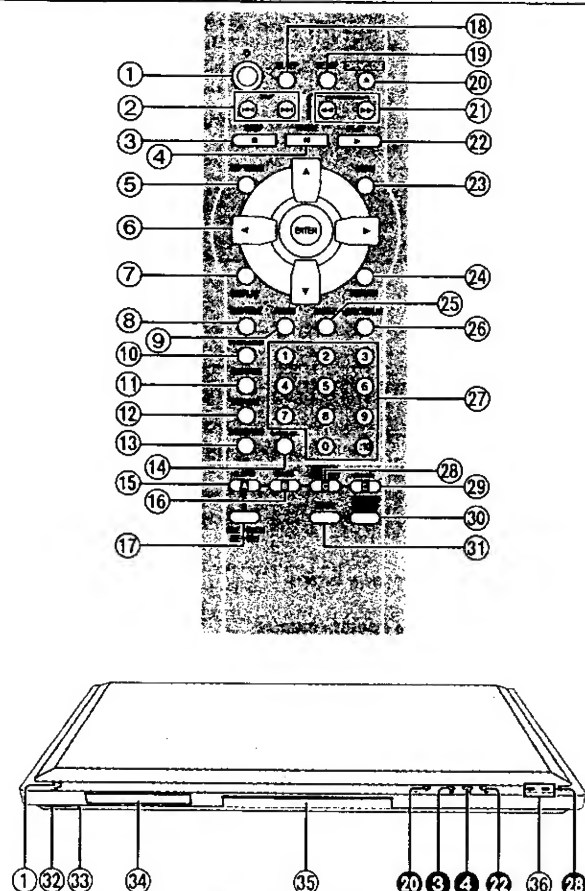
•4:3 Letterbox

The letterbox (the original widescreen images appear with black bands above and below) version of the video is automatically selected if recorded on the disc.



Control reference guide

Operations in these instructions are described mainly with the remote control, but you can do the operations on the main unit if the controls are the same.



Buttons such as 3 function the same as the controls on the remote control.

	Page
1 Standby/on switch (⏻)	6
Press to switch the unit from on to standby mode or vice versa.	
In standby mode, the unit is still consuming a small amount of power.	
2 Skip buttons (⏮, ⏭) SKIP	9
3 Stop button (■ STOP)	8
4 Pause button (⏸ PAUSE)	8
5 Top menu button (TOP MENU)	8, 11
6 Cursor buttons (▲, ▼, ◀, ▶) Enter button (ENTER)	6, 8
7 Display button (DISPLAY)	14
8 Subtitle button (SUBTITLE)	8, 12
9 Audio button (AUDIO)	12
10 Program button (PROGRAM)	10
11 Random play button (RANDOM)	11
12 Repeat button (REPEAT)	10
13 A-B repeat button (A-B REPEAT)	10
14 Cancel button (CANCEL)	10
15 Advanced Surround button (A A.SRD)	13
16 Bass plus button (B BASS)	13
17 One touch cinema memory button (ONE TOUCH MEMORY)	13
18 Sleep button (SLEEP)	11
19 Setup button (SETUP)	6, 17
20 Open/Close button (△ OPEN/CLOSE)	8
21 Slow/Search buttons (◀◀, ▶▶ SLOW/SEARCH)	9
22 Play button (▶ PLAY)	8
23 Menu button (MENU)	8, 11
24 Return button (RETURN)	6
25 Angle button (ANGLE)	12
26 Quick replay button (QUICK REPLAY)	9
27 Numbered buttons (1-9, 0, ≥10)	8
28 Cinema/Concert button (C CINEMA/CONCERT)	13
29 Dialogue Enhancer button (D D.ENH)	13
30 Position memory button (POSITION MEMORY)	9
31 4:3 TV ZOOM button (ZOOM)	9
32 Remote control signal sensor	
33 Standby indicator (⏻)	
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.	
34 Display	
35 Disc tray	8
36 Skip/Slow/Search buttons (⏮/◀◀, ▶▶/⏭)	9

Getting started

Disc information

Discs that can be played

DVD-Video	DVD-R	Audio CD	Video CD
Indication used in instructions			
DVD-V		CD*	VCD

*Including CD-R/RW and discs recorded with MP3.

Do not use irregularly shaped discs (e.g. heart-shaped), as these can damage the unit.

Discs that cannot be played

DVD-Audio, DVD-ROM, DVD-RAM, CD-ROM, CDV, CD-G, +RW, DVD-RW, CVD, SVCD, SACD, Divx Video Discs and Photo CD.

DVDs that can be played

This unit has a Dolby Digital decoder so you can play DVDs with this mark.

This unit does not have a DTS decoder. Connect this unit to equipment that has a DTS decoder to enjoy DVDs with this mark.

Playing DVDs and Video CDs

The producer of these discs can control how they are played so you may not always be able to control play as described in these operating instructions. Read the disc's instructions carefully.



Video systems

This unit can play both the PAL and NTSC video systems. To view PAL or NTSC, however, your television must match the system used on the disc.

PAL discs cannot be correctly viewed on an NTSC television.

NTSC can be correctly viewed on a PAL television by converting the video signal to PAL 60 (→ page 16, Video—NTSC Disc Output).

CD-R and CD-RW discs

This unit can play CD-DA (digital audio) and video CD format audio CD-R and CD-RW that have been finalized (a process that enables CD-R/CD-RW players to play audio CD-R and CD-RW) upon completion of recording. It may not be able to play some CD-R or CD-RW due to the condition of the recording.

DVD-R discs

Panasonic DVD-R recorded and finalized on a Panasonic DVD video recorder are played as DVD-Video on this unit.

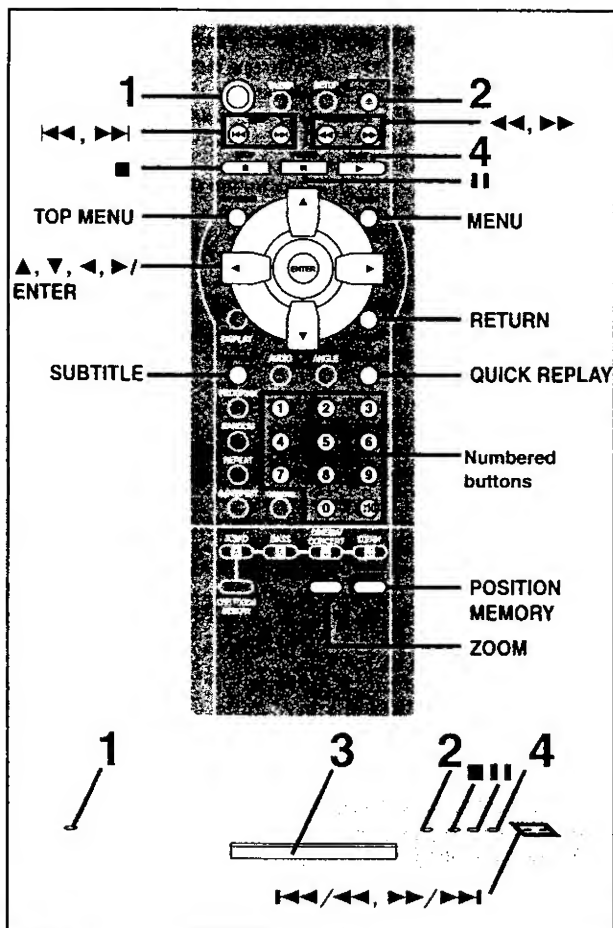
It may not be possible to play these discs in all cases due to the type of disc or condition of the recording.

Handling precautions

- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzene, thinner, static electricity prevention liquids or any other solvent.
- Do not attach labels or stickers to discs. (Do not use discs with exposed adhesive from tape or left over peeled-off stickers.)
- Do not use scratch-proof protectors or covers.
- Do not use discs printed with label printers available on the market.

RQT6316

Basic play



DVD-V CD VCD

Preparation

Turn on the television and select the appropriate video input on the television to suit the connections for the player.

- 1 Press [POWER] to turn on the unit.
- 2 Press [▲] to open the disc tray.
- 3 Place the disc on the disc tray.



- 4 Press [▶] (PLAY).
The disc tray closes and play begins.
CD (MP3 discs)
Group and track names are displayed on the television.
Press [SUBTITLE] to turn the display on or off.

To stop play
Press [■] (⇒ page 9, Resume function).

To pause play
Press [⏸] during play.
Press [▶] (PLAY) to restart play.

Note

- If "⊙" appears on the television
The operation is prohibited by the unit or disc.
- The disc continues to rotate while the menu is displayed even after you finish playing an item. Press [■] when you finish to preserve the unit's motor and your television screen.
- Volume may be lower when playing DVDs than when playing other discs or during television broadcasts.
If you turn the volume up on the television or amplifier, be sure to reduce the volume again before playing other sources so that a sudden increase in output does not occur.

When a menu screen appears on the television

DVD-V VCD

Remote control only

Press the numbered buttons to select an item.

To select a 2-digit number

Example: To select item 23, press [≥10] ⇒ [2] ⇒ [3].

- When playing DVDs, you can also use [▲, ▼, ◀, ▶] to select items.
Press [ENTER] to confirm your selection.

Play of the selected item now begins.

Other buttons used to operate menus

Read the disc's instructions for further details about operation.

[▶], [▶/▶]: Shows the next menu.

[◀], [◀/◀]: Shows the previous menu.

[RETURN]: Shows the menu screen. **VCD**

[TOP MENU]: Shows the first menu screen. **DVD-V**

[MENU]: Shows the menu screen. **DVD-V**

Starting play from a selected title or track

DVD-V CD VCD

Remote control only

Press the numbered buttons to select the item.

To select a 2-digit number

Example: To select track 23, press [≥10] ⇒ [2] ⇒ [3].

CD (MP3 discs)

Press [ENTER] after pressing the numbered buttons.
(You do not have to press [≥10].)

Play starts from the selected item.

Note

This works only when stopped with some discs.

Skipping chapters or tracks

DVD-V CD VCD

During play or while paused

Press [◀◀] or [▶▶].

- Each press increases the number of skips.
- Press [◀◀/▶▶] or [▶▶/▶▶] on the main unit.

Fast forward and rewind—SEARCH

DVD-V CD VCD

During play

Press [◀◀] or [▶▶].

- Press and hold [◀◀/▶▶] or [▶▶/▶▶] on the main unit.
- Audio will be heard during search. You can turn this audio off if you want to (→ page 16, Audio—Audio during Search).

Slow-motion play

DVD-V VCD

While paused

Press [◀◀] or [▶▶].

- Press and hold [◀◀/▶▶] or [▶▶/▶▶] on the main unit.

Frame-by-frame viewing

DVD-V VCD

Remote control only

While paused

Press [◀] or [▶].

The frame changes each time you press the button.

- The frames change in succession if you press and hold the button.
- Pressing [II] also activates forward frame-by-frame.

Notes

- The speed of search and slow-motion increases up to 5 steps.
- Press [▶] (PLAY) to restart play.
- You cannot move backwards with Video CD during slow-motion and frame-by-frame.

When playing Video CDs with playback control

Pressing buttons to perform skip, search or slow-motion may take you to a menu screen.

Replaying a scene—QUICK REPLAY

DVD-V CD VCD

Skip back a few seconds within the current item (track or title).

Remote control only

During play

Press [QUICK REPLAY].

Note

This feature may not work while playing some parts of a disc or at all with some discs.

Resume function

DVD-V CD VCD

(When the elapsed play time is displayed)

The position you stopped play at is recorded by the unit when "▶" is flashing on the display.



While "▶" is flashing, press [▶] (PLAY) to start play from where you stopped it. (When playing DVD → Chapter Review below)

- The position is cleared when the disc tray is opened or the unit is switched to standby.
- Press [■] to clear the position.

Position Memory function

Remote control only

This function allows you to memorize a position to start from even after switching the unit to standby or changing discs.

1. During play, press [POSITION MEMORY].
2. Press [⏻] to switch the unit to standby, or press [▲] to remove the disc.
3. When you are ready to play the disc again, press [▶] (PLAY). Play starts from the memorized position and the position is cleared. (When playing DVD → Chapter Review below)



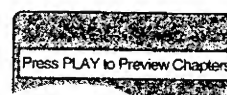
To clear the position before play

Press [■] before recalling the memorized position.

- You can memorize positions on up to five different discs at a time. When you memorize another position, the earliest position is replaced.

Chapter Review DVD-V

One of these messages appears immediately after you press [▶] (PLAY).



Press [▶] (PLAY) while the message is displayed and the beginning portions of each chapter up to the current one are played. Full play resumes from the point where you pressed [■] or [POSITION MEMORY]. (This feature works only within a title.)

If you do not press [▶] (PLAY), the message disappears and play starts from where you pressed [■] or [POSITION MEMORY].

4:3 TV ZOOM function

DVD-V

Remote control only

Widescreen software often appears as a letterbox picture when shown on a regular 4:3 aspect television. Use 4:3 TV ZOOM to expand these pictures to fill more of the television.

(The sides of the picture are cut off when you do this.)

During play

Press [ZOOM].

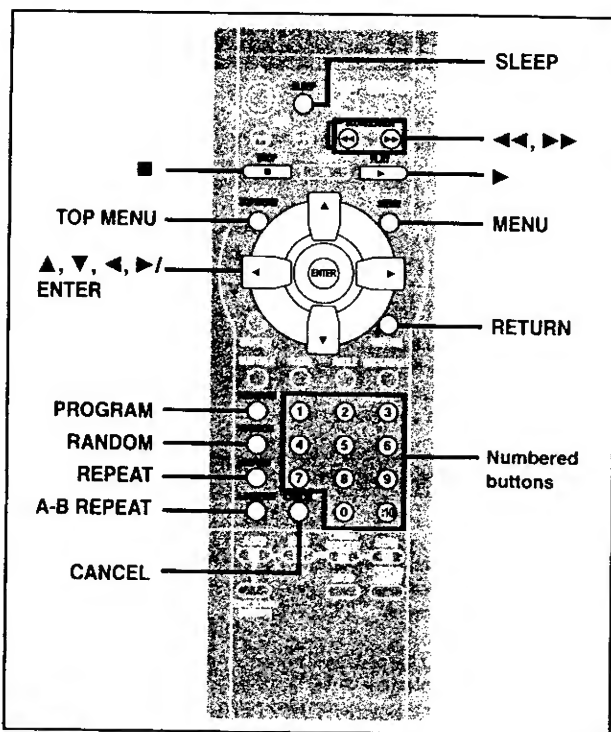
- Press again to cancel.
- 4:3 TV ZOOM is also canceled when you open the disc tray or switch the unit to standby.



Note

- Depending on the video format of the disc and current play status, this feature may not work as described.
- Menus may act or appear differently while 4:3 TV ZOOM is on.

Convenient features



DVD-V CD VCD

(When the elapsed play time is displayed)

Repeat play

Remote control only

During play

Press [REPEAT].

Each time you press the button:

DVD-V
Chapter (C) → Title (T) → OFF

CD VCD
Track (T) → Entire disc (A) → OFF

CD (MP3 discs)
Track (T) → Group (G) → OFF

◀ "All (A)" during program and random play.

If the Video CD has playback control

1. Press [STOP] during play until "PBC PLAY" is cleared from the display.
2. Press the numbered buttons to select a track to start play (→ page 8).
3. Press [REPEAT] (= above).

Note

You cannot use repeat play to repeat an entire DVD or an entire MP3 disc.

To repeat only your favorite tracks

Start program play (see right) and press [REPEAT] to display "A".

A-B repeat play

Remote control only

You can repeat a section between points A and B within a title or track.

During play

- 1 Press [A-B REPEAT] at the starting point (A).
- 2 Press [A-B REPEAT] at the finishing point (B).



To cancel

Press [A-B REPEAT] until "A-B" is displayed.

Note

- Some subtitles recorded around point A or B may fail to appear. DVD-V
- The unit automatically determines the end of a title/track as point B when the end of the title/track is reached.
- A-B repeat is canceled when you press [QUICK REPLAY].

Program play

CD VCD

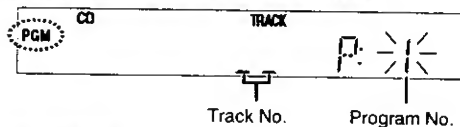
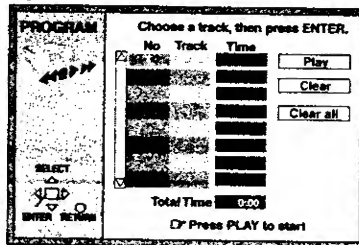
Remote control only

You can select up to 32 tracks to play in the order you choose.

While stopped

- 1 Press [PROGRAM].

e.g. CD



- 2

MP3 discs only

Press the numbered buttons to select a group.

- 3

Press the numbered buttons to select a track (and, for MP3 discs press [ENTER]).

- Repeat steps 2 and 3 to program other tracks.
- To select a track using the cursor buttons
Press [ENTER] and [▲, ▼] to select a track, then press [ENTER] again to register the number.
- All the tracks on a disc or a group are selected when you select "ALL".
- Times are not displayed when programming MP3.

- 4

Press [▶] (PLAY).

Play now begins in the programmed sequence.

To add or change tracks

Press [▲, ▼] to select an available item, then repeat steps 2 and 3.

To move to the page before or after the one shown

Press [◀◀] or [▶▶].

To clear the programmed tracks one by one

Press [▲, ▼] to select the item number (No) and press [CANCEL]. (Alternatively, you can select "Clear" with [▲, ▼, ◀, ▶] and press [ENTER].)

To clear the whole program

Move to "Clear all" with [▲, ▼, ◀, ▶] and press [ENTER]. The whole program is also cleared when the unit is turned off or the disc tray is opened.

To exit the program mode

Press [PROGRAM] while stopped. (The program is retained in memory.)

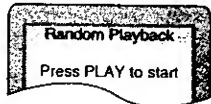
Random play

CD VCD

Remote control only

While stopped

1 Press [RANDOM].



e.g. CD



2 Press [▶] (PLAY).

Play now begins in random order.

To exit the random mode

Press [RANDOM] while stopped.

Using menus to play MP3 discs

CD (MP3 discs)

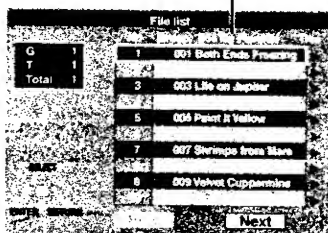
Remote control only

This unit can play MP3 files recorded on CD-R/RW with a computer. Files are treated as tracks and folders are treated as groups.

1 Press [TOP MENU] or [MENU].

A file list appears.

Group name



2 Press [▲, ▼] to select the track and press [ENTER].

Play starts and continues to the last track in the last group. "C" indicates the track currently playing.

To show other pages

Press [▲, ▼, ◀, ▶] to select "Prev" or "Next" and press [ENTER].

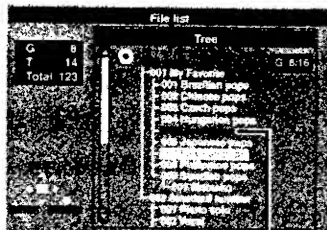
After listing all the tracks in one group, the list for the next group appears.

To close the file list screen

Press [TOP MENU] or [MENU].

Using the tree screen to find a group

1 Press [▶] while a track is highlighted to display the tree screen.



You cannot select groups that contain no compatible files.

2 Press [▲, ▼] to select a group and press [ENTER].

The file list for the group appears.

For your reference

• Press [◀, ▶] to jump layers in the tree screen.

To return to the file list screen

Press [RETURN].

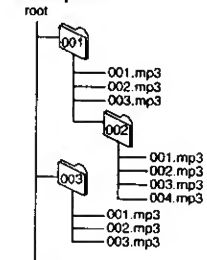
Note

- Discs must conform to ISO9660 level 1 or 2 (except for extended formats). MP3 files must have the extension ".MP3" or ".mp3".
- This unit is compatible with multi-session but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.
- This unit is not compatible with ID3 tags.
- This unit is not compatible with files with a sampling rate of 32 kHz.

Naming folders and files

At the time of recording, prefix folder and file names with 3-digit numbers in the order you want to play them (this may not work at times).

Example:



Setting the unit to turn off—SLEEP timer

DVD-V CD VCD

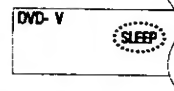
Remote control only

Press [SLEEP] to select the setting.

Each time you press the button:

OFF → AUTO → 60 min → 90 min → 120 min

↑
The unit turns off 5 minutes after play finishes.



The unit turns off after 60 minutes.

To cancel the SLEEP timer

Press [SLEEP] to select "OFF".

To confirm the remaining time

Press [SLEEP].

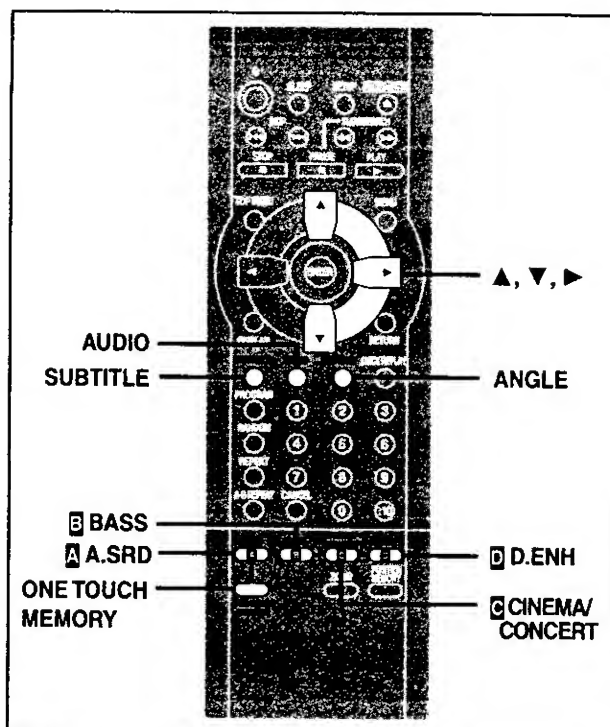
Note

- AUTO also works with DVDs that show a menu after play finishes.
- AUTO does not work if you press [■], [MENU], or [TOP MENU]. It is activated again when you restart play.
- AUTO does not work correctly with some discs (e.g., if menus appear after playing video CDs).

Auto standby

The unit switches to standby mode after about 30 minutes in the stop mode, irrespective of the SLEEP setting.

Increasing your enjoyment of movies



DVD-V

Remote control only

Some DVDs have multiple soundtracks, subtitle languages and camera angles, and you can change these during play.

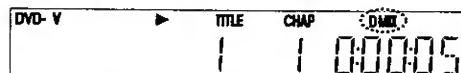
- “-” or “—” is displayed instead of the language number in circumstances such as when no languages is recorded on the disc.

Soundtracks

During play

Press [AUDIO].

The number changes each time you press the button.



“D.MIX” indicates that a multi-channel soundtrack can be down-mixed to two channels.

- You can also use this button to turn the vocals on and off on karaoke discs. Read the disc's instruction for details.
- Refer to **B** on page 15 for audio signal type details.

Subtitles

During play

Press [SUBTITLE].

The number changes each time you press the button.



- In some cases, the subtitle language is not changed to the selected one immediately.

To clear/display the subtitles

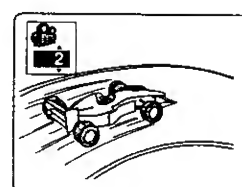
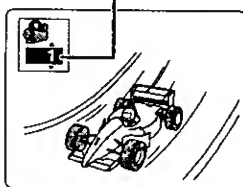
1. Press [SUBTITLE].
2. Press [▶].
3. Press [▲, ▼] to select “OFF” or “ON”.

Angles

During play

Press [ANGLE].

The number changes each time you press the button.



Use the **A B C D** buttons to control the following features, used to enhance your enjoyment of movies. ONE TOUCH CINEMA MEMORY then allows you to store the settings and recall them at a touch of a button.

Note

Turn ADVANCED SURROUND and BASS PLUS off when using Dolby Pro Logic. Dolby Pro Logic will not work correctly if they are on.

A ADVANCED SURROUND

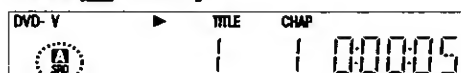
DVD-V (Dolby Digital, 2-channel or over only)

Remote control only

Use ADVANCED SURROUND V.S.S. (Virtual Surround Sound) to enjoy a surround-like effect if you are using 2 front speakers. If you are playing a disc with surround effects recorded on it, the effect is broadened and sound seems to come from virtual speakers on either side.

During play

Press [**A** A.SRD].



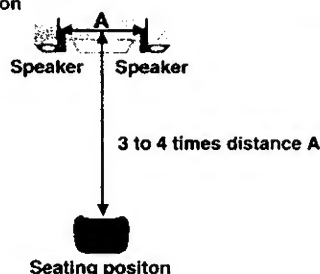
Each time you press the button:

- 1: Natural effect
- 2: Emphasized effect
- OFF: Cancel (Factory preset)

Optimum seating position

<When using the television's speakers>

Distance A =
Television's width



Note

- ADVANCED SURROUND will not work, or will have less effect with some discs.
- Turn off the surround sound effects on the equipment you have connected when using this effect.
- Turn ADVANCED SURROUND off if it causes distortion.

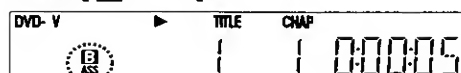
B BASS PLUS

DVD-V **CD** **VCD**

Remote control only

Turn BASS PLUS on when you have connected an active subwoofer to the SUBWOOFER terminal on the rear of the unit (= page 5).

Press [**B** BASS].



Each time you press the button:

- OFF
- 1: Natural bass effect (Factory preset)
- 2: Emphasized bass effect



C CINEMA/CONCERT

DVD-V **CD** **VCD**

You can change the quality of the picture and audio to suit the material you are watching.

Press [**C** CINEMA/CONCERT].



Each time you press the button:

- Cin.: **DVD-V** **VCD**
Use when watching movies to mellow images and enhance detail in dark scenes.
- Con.: **DVD-V** **CD** **VCD**
Use when watching recordings of live performances to enhance detail in dark scenes, suppress brightness in bright parts, and add power to the sound.

→ Nor.: Normal mode (Factory preset)



For your reference

- You can make finer adjustments to the picture if desired (= page 15, Video menu, Digital picture/audio mode—User mode).
- Turn on the attenuator if sound output from your television's speakers is distorted while "Con." is on (= page 15, Audio menu).

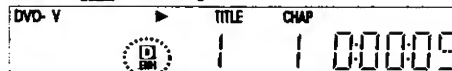
D DIALOGUE ENHANCER

DVD-V (Dolby Digital, 3-channel or over, where the dialogue is recorded in the center channel)

Remote control only

This mode makes the dialogue in movies easier to hear.

Press [**D** D.ENH].



Each time you press the button:

ON → OFF (Factory preset)



Note

DIALOGUE ENHANCER will not work, or will have less effect with some discs.

ONE TOUCH CINEMA MEMORY

Remote control only

This feature allows you to reselect the settings you made for ADVANCED SURROUND, BASS PLUS, CINEMA/CONCERT and DIALOGUE ENHANCER with one button press.

Putting the settings into memory

After making the settings

Press and hold [**ONE TOUCH MEMORY**].

"M" lights.

The settings remain in the memory even if you turn the unit off.

Recalling the settings

Press [**ONE TOUCH MEMORY**].

"M" lights.

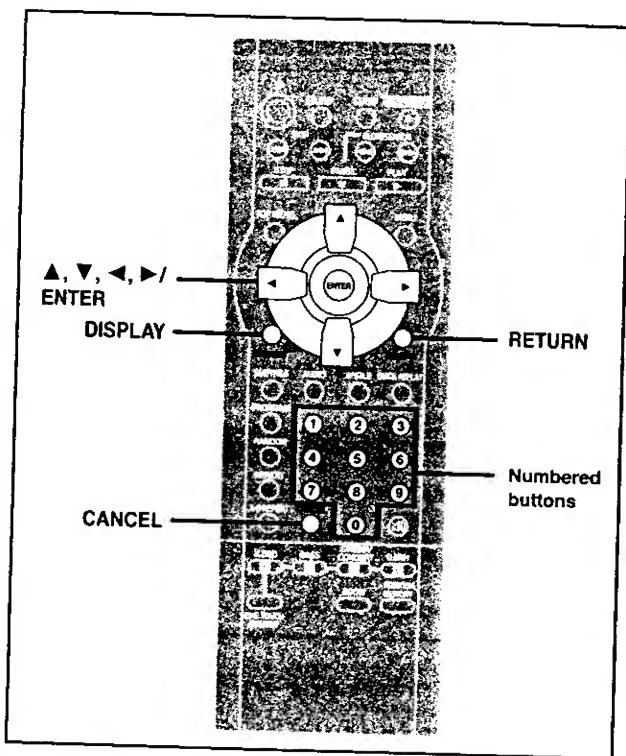
To cancel

Press [**ONE TOUCH MEMORY**] to turn it off and return the settings for the features to the factory preset.

- **A** ADVANCED SURROUND: OFF
- **B** BASS PLUS: 1
- **C** CINEMA/CONCERT: Nor.
- **D** DIALOGUE ENHANCER: OFF

"M" goes out if you press any of the other buttons to change the settings.

Using Graphical User Interface (GUI) screens



GUI screens are menus that contain information about the disc or unit. These menus allow you to perform operations by changing this information.

Common procedures

DVD-V CD VCD

Remote control only

- 1 Press [DISPLAY].**
Each time you press the button:
- Disc information → Progress indicator
- Original display ← Unit information (= step 2)

- 2** Unit information only
- While the leftmost icon is highlighted
Press [▲, ▼] to select the menu.
Each time you press the button:
- Play menu ↔ Video menu
- ↑ ↓
- Display menu ↔ Audio menu

- 3** Press [◀, ▶] to select the item.

- 4 Press [▲, ▼] to select the setting.**
- Items with “▲” or “▼” above and below can be changed by [▲, ▼].
 - Press [ENTER] if the setting does not change after pressing [▲, ▼].
 - Some items require different operations. Read the following explanations.

For your reference

- Depending on the condition of the unit (playing, stopped, etc.) and the type of software you are playing, there are some items that you cannot select or change.
- When numbers are displayed (e.g. title No.), the numbered buttons are also effective for setting. After entering numbers, press [ENTER] to register the setting.

To clear the icons

Press [RETURN] until the menus disappear.

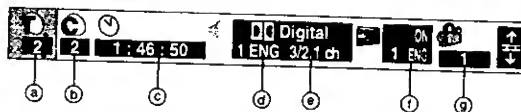
- To change the position of the icons

1. Press [◀, ▶] to select the rightmost icon.
2. Press [▲, ▼] to move the icons.
(There are 5 positions.)

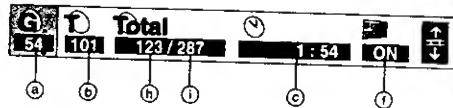


Disc information

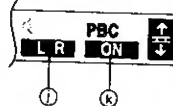
e.g. DVD-Video



e.g. MP3 disc



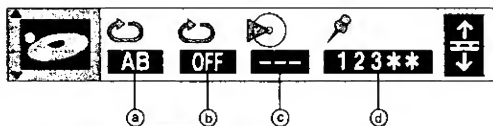
e.g. Video CD



- a) **Title number** **DVD-V**
T: Track number **CD** **VCD**
G: Group number **CD** (MP3 discs)
 - b) **C: Chapter number** **DVD-V**
T: Track number in group **CD** (MP3 discs)
 - c) **Time** **DVD-V**
 - Press [**▲**, **▼**] to show the elapsed play time or remaining time for the title.
 - Select a position to start play by specifying a time with the numbered buttons and press [ENTER].
- Changing the time display** **CD** **VCD**
 Press [**▲**, **▼**] to show the elapsed play time, remaining time for the track, or remaining time for the disc.
- Elapsed play time** **CD** (MP3 discs)
 (display only, cannot be changed)
- d) **Soundtrack language** **DVD-V** (⇒ page 12)
 (See **A** on page 15 for language abbreviations.)
 - e) **Audio signal type** **DVD-V** (⇒ page 12)
 (See **B** on page 15 for details.)
- Karaoke vocal on/off** (Karaoke DVD only) **DVD-V**
 Solo: OFF or ON
 Duet: OFF, V1+V2, V1 or V2
- f) **Subtitle language** **DVD-V** (⇒ page 12)
 (See **A** on page 15 for language abbreviations.)
- Subtitles on/off**
 ON ↔ OFF
- Group/Track name display on/off** **CD** (MP3 discs)
 ON ↔ OFF
- g) **Angle number** **DVD-V** (⇒ page 12)
 - h) **Track number in disc** **CD** (MP3 discs)
 - i) **Total number of tracks on disc** **CD** (MP3 discs)
 - j) **Audio mode** **VCD**
 LR ↔ L ↔ R
 ↑
- k) **Menu play** **VCD** (with playback control only)
 Indicates whether menu play (playback control) is on or off.

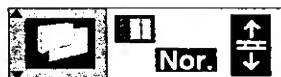
Unit information

Play menu

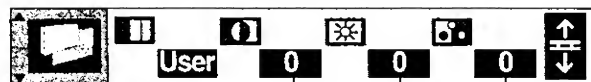


- a **A-B repeat** **DVD-V** **CD** **VCD** (⇒ page 10)
[ENTER] (start point) → [ENTER] (finish point)
To cancel: [ENTER]
- b **Repeat play** (⇒ page 10)
DVD-V **CD** (MP3 discs)
Chapter (C) ↔ Title (T) Track (T) ↔ Group (G)
↔ OFF ↔
CD **VCD**
Track (T) ↔ Entire disc (A)
↔ OFF ↔
“All (A)” during program and random play.
- c **Play mode display** **CD** **VCD**
---: Normal play PGM: Program play RND: Random play
- d **Marker** **DVD-V** **CD** **VCD**
You can mark up to 5 positions to play again.
[ENTER] (The unit is now ready to accept markers.)
To mark a position: [ENTER] (at the desired point)
To mark another position: [◀, ▶] → [ENTER]
To recall a marker: [◀, ▶] → [ENTER]
To erase a marker: [◀, ▶] → [CANCEL]

Video menu



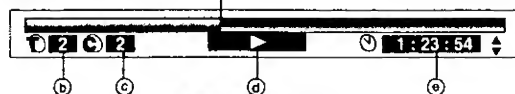
- Digital picture/audio mode** **DVD-V** **CD** **VCD**
(⇒ page 13, CINEMA/CONCERT)
Nor.: Normal mode
Cin.: Use when watching movies. **DVD-V** **VCD**
Con.: Use when watching recordings of live performances.
DVD-V **CD** **VCD**
User: User mode
The following items are also displayed when you select “User”.



- a **Contrast** (−7 to +7)
b **Brightness** (0 to +15)
c **Color** (−7 to +7)

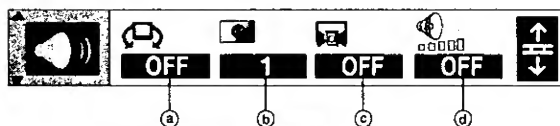
Progress indicator

Indicates how far you have played through an item.
e.g. DVD-Video



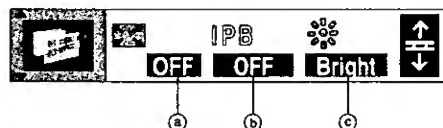
- a **Current position** **DVD-V** **CD** **VCD**
b **T: Title number** **DVD-V**
c **T: Track number** **CD** **VCD**
d **G: Group number** **CD** (MP3 discs)
e **C: Chapter number** **DVD-V**
f **T: Track number in group** **CD** (MP3 discs)
g **Condition—play, pause, or slow/search** **DVD-V** **CD** **VCD**
h **Time** **DVD-V**
• Press [▲, ▼] to show the elapsed play time or remaining time for the title.
• Select a position to start play by specifying a time with the numbered buttons and press [ENTER].
Changing the time display **CD** **VCD**
Press [▲, ▼] to show the elapsed play time or remaining time for the track.
Elapsed play time **CD** (MP3 discs)
(display only, cannot be changed)

Audio menu



- a **ADVANCED SURROUND** **DVD-V** (⇒ page 13)
1 ↔ 2 ↔ OFF
↑
b **BASS PLUS** **DVD-V** **CD** **VCD** (⇒ page 13)
1 ↔ 2 ↔ OFF
↑
c **DIALOGUE ENHANCER** **DVD-V** (⇒ page 13)
ON ↔ OFF
d **Attenuator** **DVD-V** **CD** **VCD**
Turn on if sound output from your television's speaker is distorted while “Con.” is on (⇒ left, Digital picture/audio mode).
ON ↔ OFF

Display menu



- a **4:3 TV ZOOM** **DVD-V** (⇒ page 9)
ON ↔ OFF
b **IPB display** **DVD-V** (⇒ Back cover, Glossary)
ON ↔ OFF
Displays the picture type (I/P/B) in the still picture mode.
c **Display dimmer** **DVD-V** **CD** **VCD**
Changes the brightness of the unit's display.
Bright ↔ Dim ↔ Auto* (**DVD-V** **VCD**)
↑
*The display is dimmed during play, but brightens when you perform operations such as slow-motion, search, and pause.

A Audio/Subtitle language

ENG: English	SVE: Swedish	CHI: Chinese
FRA: French	NOR: Norwegian	KOR: Korean
DEU: German	DAN: Danish	MAL: Malay
ITA: Italian	POR: Portuguese	VIE: Vietnamese
ESP: Spanish	RUS: Russian	THA: Thai
NLD: Dutch	JPN: Japanese	×: Others

B Signal type/data






LPCM/□□Digital/DTS/MPEG: Signal type
k (kHz): Sampling frequency
b (bit): Number of bits
ch (channel): Number of channels

Example: 3/2, 1ch

- 1: Subwoofer signal (not displayed if there is no subwoofer signal)
0: No surround
1: Mono surround
2: Stereo surround (left/right)
1: Center
2: Front left+Front right
3: Front left+Front right+Center

Changing settings

This chart shows the settings for this unit. Change the settings to suit your preferences and to suit the unit to the environment in which it is being used. These settings are retained in memory until they are changed, even if the unit is turned off. See page 17 for details on menu operation.

Menus	Items	Options (Underlined items are the factory preset.)
	Audio <u>DVD-V</u> Choose the preferred audio language.	<u>English</u> French German Italian Spanish Portuguese Swedish Dutch Original*1 Other * * * * +2
	Subtitle <u>DVD-V</u> Choose the preferred subtitle language.	<u>Automatic</u> *3 English French German Italian Spanish Portuguese Swedish Dutch Other * * * * +2
	Menus <u>DVD-V</u> Choose the preferred language for disc menus.	<u>English</u> French German Italian Spanish Portuguese Swedish Dutch Other * * * * +2
	Ratings <u>DVD-V</u> Set a ratings level to limit DVD-Video play. • The password screen is shown if you choose levels 0 to 7 or if you choose "Ratings" when levels 0 to 7 have been selected (= page 17). • Select "Level 0" to prevent play of discs that do not have ratings levels recorded on them.	Setting ratings (When level 8 is selected) <u>8 No Limit</u> 1 to 7*4 0 Lock All Changing ratings (When level 0-7 is selected) Unlock Player Change Password Change Level Temporary Unlock
	TV Aspect (= page 6) Choose the setting to suit your television and preference.	<u>4:3 Pan&Scan</u> 4:3 Letterbox 16:9
	For the United Kingdom, Continental Europe and Russia AV Output (= page 4) Choose the video signal format to be output from the SCART terminal.	<u>Video</u> S-Video RGB
	Still Mode (= Back cover, Glossary) Specify the type of picture shown when paused.	<u>Automatic</u> Field Frame
	NTSC Disc Output Choose whether PAL 60 or NTSC signals are output during playback of NTSC discs (= page 7).	<u>PAL60</u> : when connected to a PAL television. NTSC: when connected to an NTSC television. (For Asia: "NTSC" is the factory preset.)
	PCM Down Conversion <u>DVD-V</u> (= page 17)	<u>No</u> Yes
	Dolby Digital <u>DVD-V</u> (= page 17)	<u>Bitstream</u> PCM
	DTS Digital Surround <u>DVD-V</u> (= page 17)	<u>Off</u> Bitstream
	For the United Kingdom, Continental Europe, Russia, Australia and N.Z. MPEG <u>DVD-V</u> (= page 17)	<u>PCM</u> Bitstream
	D. Range Compression <u>DVD-V</u> Dolby Digital only (= Back cover, Glossary) Change the dynamic range for late night viewing.	<u>Off</u> On
	Audio during Search Choose whether to have sound during search.	<u>On</u> Off
	Menu Language Choose the preferred language for these menus and the on-screen messages.	<u>English</u> Français Deutsch Italiano Español Português Svenska Nederlands For Asia: <u>English</u> 中文
	On-Screen Messages Choose whether to show on-screen messages or not.	<u>On</u> Off
	Demo A demonstration of the unit's on-screen displays starts when you select "On". The demonstration stops when you press a button and the setting reverts to "Off".	<u>Off</u> On
	QUICK SETUP (= page 6) Answer questions to make basic settings.	Yes <u>No</u>

*1 The original language of each disc will be selected.

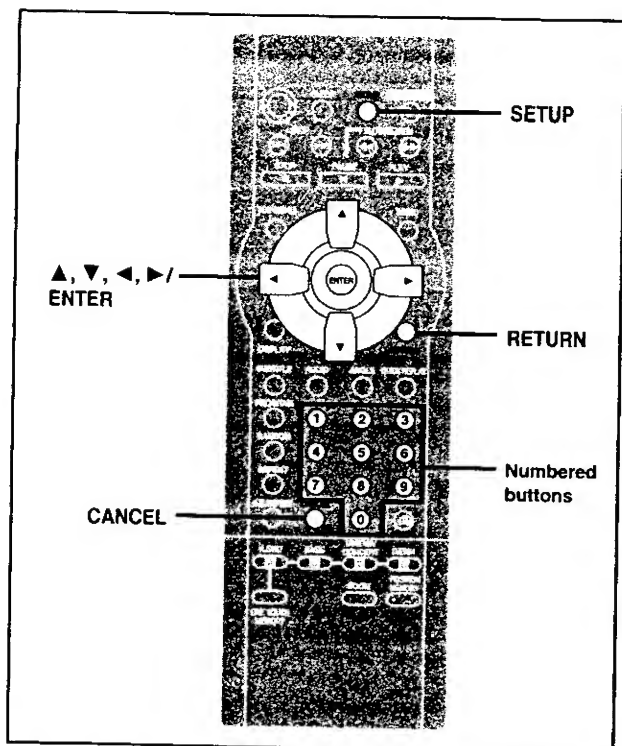
*2 Input a code number with the numbered buttons (see below).

*3 If the language selected for "Audio" is not available, subtitles of that language will automatically appear if available on that disc.

*4 Prohibits play of DVD-Video with corresponding ratings recorded on them.

Language code list

Abkhazian: 6566	Byelorussian: 6669	Georgian: 7565	Kashmiri: 7583	Mongolian: 7778	Serbo-Croatian: 8372	Tigrinya: 8473
Afar: 6565	Cambodian: 7577	German: 6869	Kazakh: 7575	Nauru: 7865	Shona: 8378	Tonga: 8479
Afrikaans: 6570	Catalan: 6765	Greek: 6976	Kirghiz: 7589	Nepali: 7869	Sindhi: 8368	Turkish: 8482
Albanian: 8381	Chinese: 9072	Greenlandic: 7576	Korean: 7579	Norwegian: 7879	Singhalese: 8373	Turkmen: 8475
Ameharic: 6577	Corsican: 6779	Guarani: 7178	Kurdish: 7585	Oriya: 7982	Slovak: 8375	Twi: 8487
Arabic: 6582	Croatian: 7282	Gujarati: 7185	Laotian: 7679	Pashto, Pushto: 8083	Slovenian: 8376	Ukrainian: 8575
Armenian: 7289	Czech: 6783	Hausa: 7265	Latin: 7665	Persian: 7065	Somali: 8379	Urdu: 8582
Assamese: 6583	Danish: 6865	Hebrew: 7387	Latvian, Lettish: 7686	Polish: 8076	Spanish: 6983	Uzbek: 8590
Aymara: 6588	Dutch: 7876	Hindi: 7273	Lingala: 7678	Portuguese: 8084	Sundanese: 8385	Vietnamese: 8673
Azerbaijani: 6590	English: 6978	Hungarian: 7285	Lithuanian: 7684	Punjabi: 8065	Swahili: 8387	Volapük: 8679
Bashkir: 6665	Esperanto: 6979	Icelandic: 7383	Macedonian: 7775	Quechua: 8185	Swedish: 8386	Welsh: 6789
Basque: 6985	Estonian: 6984	Indonesian: 7378	Malagasy: 7771	Rhaeto-Romance: 8277	Tagalog: 8476	Wolof: 8779
Bengali, Bangla: 6678	Farose: 7079	Interlingua: 7365	Malay: 7783	Romanian: 8279	Tajik: 8471	Xhosa: 8872
Bhutani: 6890	Fiji: 7074	Irish: 7165	Malayalam: 7776	Russian: 8285	Tamil: 8465	Yiddish: 7473
Bihari: 6672	Finnish: 7073	Italian: 7384	Maltese: 7784	Samoan: 8377	Tatar: 8484	Yoruba: 8979
Breton: 6682	French: 7082	Japanese: 7465	Maori: 7773	Sanskrit: 8365	Telugu: 8469	Zulu: 9085
Bulgarian: 6671	Frisian: 7089	Javanese: 7487	Marathi: 7782	Scots Gaelic: 7168	Thai: 8472	
Burmese: 7789	Galician: 7176	Kannada: 7578	Moldavian: 7779	Serbian: 8382	Tibetan: 6679	

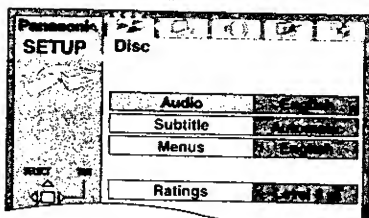


Common procedures

Remote control only

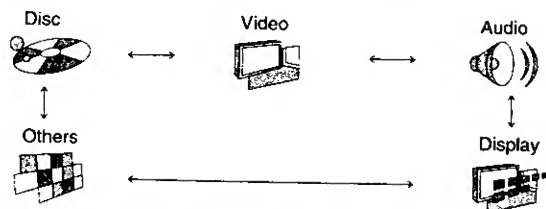
See page 16 for menu and option details.

- 1 Press [SETUP] to show the menus.



• The QUICK SETUP screen appears when you press [SETUP] the first time after purchase (→ page 6).

- 2 Press [◀, ▶] to select the menu's tab.
The screen changes to display the menu.



- 3 Press [▲, ▼] to select the item you want to change and press [ENTER].

- 4 Press [▲, ▼, ▶, ◀] to select the option and press [ENTER].

The screen now shows the menu again.

To return to the previous screen
Press [RETURN].

When you are finished
Press [SETUP].

Entering a password (Ratings)

DVD-V

The password screen is shown when you select levels 0 to 7.

1. Input a 4-digit password with the numbered buttons and press [ENTER].
 - If you enter a wrong number, press [CANCEL] to erase it before you press [ENTER].
 - The lock symbol appears closed to show the rating is locked.
 - **Do not forget your password.**
2. Press [ENTER] to confirm the 4 digits.

Now, when you insert a DVD-Video that exceeds the ratings limit you set, a message appears on the television.
Follow the on-screen instructions.

Digital output

DVD-V

Change the settings when you have connected equipment through this unit's DIGITAL AUDIO OUT terminal (OPTICAL).

PCM Down Conversion

Select how to output audio with a sampling frequency of 96 kHz.
Select "Yes" if the equipment you connect cannot process signals with a sampling frequency of 96 kHz.

- Select "No" if you use analogue connection, irrespective of the type of equipment.

No (Factory preset):

Output as 96 kHz. There is no output if the disc has copy protection. Select "Yes" in this case.

Yes:

Converted to 48 kHz for output.

Dolby Digital, DTS Digital Surround and MPEG*

Bitstream: (Factory preset for Dolby Digital)

Select if the equipment you connected can decode the signal.

PCM: (Factory preset for MPEG*)

Select if the equipment you connected cannot decode the signal.

Off: (Factory preset for DTS Digital Surround)

Select if the equipment you connected cannot decode the signal.

*MPEG is not available in Asia.

IMPORTANT

If the equipment you connected cannot decode the signal, the setting must be changed to PCM or Off. If not, signals the equipment cannot process will be output by this unit, causing high levels of noise which can damage your hearing and the speakers.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Manufactured under license from Dolby Laboratories.

"Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

"DTS", "DTS Digital Surround" and "DTS Digital Out" are registered trademarks of Digital Theater Systems, Inc.

Troubleshooting guide

Before requesting service, make the below checks. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, consult your dealer for instructions.

Power

Page

No power.	•Insert the AC mains lead securely into the household mains socket.	4
The unit is automatically switched to the standby mode.	•To conserve power, the unit automatically switches to standby after approximately 30 minutes in the stop mode. Turn the power back to ON. •The unit was switched to standby by the SLEEP timer.	11

Operation

No response when buttons pressed.	•Some operations may be prohibited by the disc. •The unit may not be operating properly due to lightning, static electricity or some other external factor. Reset procedure: Press [⏻] to switch the unit to the standby mode and then back to ON. Alternatively, press [⏻] to switch the unit to the standby mode, disconnect the AC mains lead, and then reconnect it.	— —
No operations can be performed with the remote control.	•Check the batteries are installed correctly. •The batteries are depleted: Replace them with new ones. •Point the remote control at the remote control signal sensor and operate.	6 6 7
Play fails to start even when [▶] (PLAY) is pressed. Play starts but then stops immediately.	•Condensation has formed: Wait 1 to 2 hours for it to evaporate. •This unit cannot play discs other than DVD-Video, CD and Video CD. •You can only play DVD-Video if their region number is the same or includes the same region number as the unit or if the DVD-Video is marked "ALL". Confirm the region number for the unit on the rear panel.	— 7 Cover page
Alternative languages fail to be selected.	•The disc may be dirty and may require cleaning. •Ensure that the disc is installed with the label of the side to be played facing upwards.	— 8
No menu play.	•An alternative language is not selected with discs which do not contain more than one language.	—
No subtitles.	•In the case of some discs, the alternative language cannot be selected with [AUDIO] or [SUBTITLE]. Try selecting it from the disc's menu if one is available.	8
Soundtrack and/or subtitle language is not the one selected with the SETUP menus.	•Menus are only displayed if they are recorded on the disc.	—
Angle cannot be changed.	•Subtitles appear only with discs that contain them. •Subtitles are cleared from the television. Display the subtitles.	12
DIALOGUE ENHANCER has no effect.	•The language is not recorded on the disc.	—
You have forgotten your ratings password. Reset all the settings to Factory Preset.	•This function is dependent on software availability. Even if a disc has a number of angles recorded, these angles may be recorded for specific scenes only. •This feature does not work when the unit is outputting bitstream signals.	12
	•While stopped, press and hold [◀◀] and [▶▶] on the unit and then also press and hold [▲] on the unit until "Initialized" disappears from the television. Turn the unit off and on again. All settings will return to the default values.	—

Picture

Picture distorted.	•Some distortion is normal during SEARCH.	—
No picture.	•Ensure that the equipment is connected properly. •Make sure the television is on. •Ensure the television's video input setting (e.g., VIDEO 1) is correct.	4 — —
The picture shown on the television is not normal. (The sides of the picture are cut off or black bands appear at the top and bottom of the screen.)	•Go to the Video menu in the SETUP screen, and change "TV Aspect" to suit your television. You may also need to change the screen mode on the television itself.	6, 16
Picture quality is poor.	•Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder. •The 4:3 TV ZOOM function is on.	— 9
The SETUP menus and other screens shown on the television are displayed incorrectly. Colors appear faded.	•Check the settings in the GUI screen's Video menu. •The unit and television are using different video systems. For the United Kingdom, Continental Europe, Russia, Australia and N.Z. Use a multi-system or PAL television. For Asia Use a multi-system or NTSC television.	15 —

Sound

Page

No sound.	•Check the connections.	4, 5
Distorted sound.	•Check the volume on the equipment you have connected.	—
	•Ensure that the input settings for the television and stereo system are correct.	—
	•Turn ADVANCED SURROUND off if it causes distortion.	13
Piercing noise comes from the speakers.	•If you have connected this unit to other equipment through the DIGITAL AUDIO OUT terminal, ensure you have selected the correct settings for "Dolby Digital", "DTS Digital Surround" and "MPEG" in the SETUP menu's Audio menu.	17
	*Not available in Asia.	

Unit displays

"NO PLAY"	•You inserted a disc the unit cannot play; insert one it can.	7
"CHECK DISC"	•Disc is dirty. Wipe the disc clean.	—
"H□□"	•Trouble is likely to have occurred. The number following "H" depends on the status of the unit.	—
□□ stands for a number.	Reset procedure: Press [⏻] to switch the unit to the standby mode and then back to ON. Alternatively, press [⏻] to switch the unit to the standby mode, disconnect the AC mains lead, and then reconnect it.	—
	•If the service numbers fail to clear, note the service number and contact a qualified service person.	—
"NO DISC"	•You haven't inserted a disc; insert one.	—
	•You haven't inserted the disc correctly; insert it correctly.	8

Television displays

No on-screen display.	•Go to Display in the SETUP menus, and select "On" for "On-Screen Messages".	16
GUI screens not displayed or only partially displayed on the television.	•Press [▲, ▼] while the rightmost icon is highlighted to move them.	14
The disc's menu is displayed in a different language.	•Go to Disc in the SETUP menus, and select the preferred language for "Menus".	16

Safety precautions

Placement

Set the unit up on an even surface away from direct sunlight, high temperatures, high humidity, and excessive vibration. These conditions can damage the cabinet and other components, thereby shortening the unit's service life.

Do not place heavy items on the unit.

Voltage

Do not use high voltage power sources. This can overload the unit and cause a fire.

Do not use a DC power source. Check the source carefully when setting the unit up on a ship or other place where DC is used.

AC mains lead protection

Ensure the AC mains lead is connected correctly and not damaged. Poor connection and lead damage can cause fire or electric shock. Do not pull, bend, or place heavy items on the lead.

Grasp the plug firmly when unplugging the lead. Pulling the AC mains lead can cause electric shock.

Do not handle the plug with wet hands. This can cause electric shock.

Foreign matter

Do not let metal objects fall inside the unit. This can cause electric shock or malfunction.

Do not let liquids get into the unit. This can cause electric shock or malfunction. If this occurs, immediately disconnect the unit from the power supply and contact your dealer.

Do not spray insecticides onto or into the unit. They contain flammable gases which can ignite if sprayed into the unit.

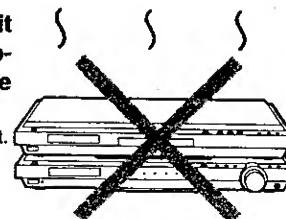
Service

Do not attempt to repair this unit by yourself. If sound is interrupted, indicators fail to light, smoke appears, or any other problem that is not covered in these instructions occurs, disconnect the AC mains lead and contact your dealer or an authorized service center. Electric shock or damage to the unit can occur if the unit is repaired, disassembled or reconstructed by unqualified persons.

Extend operating life by disconnecting the unit from the power source if it is not to be used for a long time.

Do not place the unit on amplifiers or equipment that may become hot.

The heat can damage the unit.



Maintenance

Clean this unit with the included cleaning cloth.

•Never use alcohol, paint thinner or benzene to clean this unit.

Reference

ROT6316

Specifications

Signal system: PAL 625/50, PAL 525/60, NTSC
Operating temperature range: +5 to +35 °C
Operating humidity range: 5 to 90 % RH (no condensation)

Discs played [8 cm or 12 cm]:

- (1) DVD-Video, DVD-R (DVD-Video compatible)
- (2) CD-Audio (CD-DA)
- (3) Video CD
- (4) CD-R/CD-RW (CD-DA, Video CD formatted discs)
- (5) MP3
 - Maximum number of tracks and groups recognizable: 999 tracks and 99 groups
 - Compatible compression rate: between 32 kbps and 320 kbps

Video output:

Output level: 1 Vp-p (75 Ω)

Output terminal:

For the United Kingdom, Continental Europe and Russia

Pin jack (1 system)/AV

For Asia, Australia and N.Z.

Pin jack (1 system)

S video output:

Y output level: 1 Vp-p (75 Ω)

C output level: NTSC: 0.286 Vp-p (75 Ω)

PAL: 0.300 Vp-p (75 Ω)

Output terminal:

For the United Kingdom, Continental Europe and Russia

S terminal (1 system)/AV

For Asia, Australia and N.Z.

S terminal (1 system)

Component video output:

For Asia, Australia and N.Z.

Y output level: 1 Vp-p (75 Ω)

P_B output level: 0.7 Vp-p (75 Ω)

P_R output level: 0.7 Vp-p (75 Ω)

Output terminal: Pin jack (1 system)

(Y: green, P_B: blue, P_R: red)

RGB video output:

For the United Kingdom, Continental Europe and Russia

R output level: 0.7 Vp-p (75 Ω)

G output level: 0.7 Vp-p (75 Ω)

B output level: 0.7 Vp-p (75 Ω)

Output terminal: AV (1 system)

Audio output:

Output level: 2 Vrms (1 kHz, 0 dB)

Output terminals:

For the United Kingdom, Continental Europe and Russia

Pin jack/AV

For Asia, Australia and N.Z.

Pin jack

Number of terminals:

2ch:

1 system

Subwoofer output (0.1ch):

1 system

Audio performance:

(1) Frequency response:

• DVD (linear audio): 4 Hz–22 kHz (48 kHz sampling)

• CD audio: 4 Hz–44 kHz (96 kHz sampling)

4 Hz–20 kHz

(2) S/N ratio:

• CD audio: 115 dB

(3) Dynamic range:

• DVD (linear audio): 102 dB

• CD audio: 98 dB

(4) Total harmonic distortion:

• CD audio: 0.0025 %

Digital audio output:

Optical digital output:

Optical terminal

Pickup:

Wave length:

658 nm/790 nm

Laser power:

CLASS 2/CLASS 1

NORSK

Pickup:

Bølgelengde:

658 nm/790 nm

Laser-styrke:

Ingen farlig stråling sendes ut

KLASSE 2/KLASSE 1

Power supply:

For the United Kingdom, Continental Europe, Russia, Australia and N.Z.

AC 220–240 V, 50 Hz

For Asia

AC 220–240 V, 50/60 Hz

Power consumption:

14 W

Dimensions:

430 (W) × 300 (D) × 52 (H) mm

(excluding protrusions)

Mass:

2.9 kg

Power consumption in standby mode:

For the United Kingdom, Continental Europe and Russia

approx. 3 W

For Asia, Australia and N.Z.

approx. 2.5 W

Note

Specifications are subject to change without notice.
 Mass and dimensions are approximate.

Glossary

Bitstream

This is the digital form of multiple channel audio data (e.g., 5.1 channel) before it is decoded into its various channels.

Decoder

A decoder restores the coded audio signals on DVDs to normal. This is called decoding.

Dolby Digital

This is a method of coding digital signals developed by Dolby Laboratories. Apart from stereo (2-channel) audio, these signals can also be 5.1-channel audio. A large amount of audio information can be recorded on one disc using this method.

Dolby Pro Logic

A surround system where a 4-channel audio track is recorded as 2 channels and then is restored to 4 channels for play. The surround channel is monaural and can reproduce up to 7 kHz.

DTS (Digital Theater Systems)

This surround system is used in many movie theaters around the world. There is good separation between the channels, so realistic sound effects are possible.

Dynamic range

Dynamic range is the difference between the lowest level of sound that can be heard above the noise of the equipment and the highest level of sound before distortion occurs.

Frame still and field still

Frames are the still pictures that go together to make a moving picture.

There are about 30 frames shown each second.

One frame is made up of two fields. A regular television shows these fields one after the other to create frames.

A still is shown when you pause a moving picture. A frame still is made up of two alternating fields, so the picture may appear blurred, but overall quality is high. A field still is not blurred, but it has only half the information of a frame still so picture quality is lower.

I/P/B

MPEG 2, the video compression standard adopted for use with DVD-Video, codes frames using these 3 picture types.

I: Intra coded picture (I-picture)

This is the standard picture and is a complete picture in itself. This means it has the best picture quality and is the best to use when adjusting the picture.

P: Predictive coded picture (P-picture)

This picture is calculated based on past I or P-pictures.

B: Bidirectionally-predictive coded picture (B-picture)

This picture is calculated by comparing past and future I and P-pictures so it has the lowest volume of information.

Linear PCM (pulse code modulation)

These are uncompressed digital signals, similar to those found on CDs.

Playback control (PBC)

If a Video CD has playback control, you can select scenes and information with menus (called menu play in these instructions).